## PATENT COOPERATION TREATY

# **PCT**

# TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference  NOPCT-40  FOR FURTHER ACTION  See Form PCT/IPEA/416							
International application No.  PCT/JP2005/001808  International filing date (day/month/year)  O8.02.2005  Priority date (day/month/year)  26.02.2004							
International Patent Classification (IPC) or national classification and IPC  B32B5/18 (2006.01), B60R13/02 (2006.01), D06M11/72 (2006.01),  D06M13/292 (2006.01), D06M15/41 (2006.01), D06M15/423 (2006.01),							
Applicant NAGOYA OILCHEMICAL CO., LTD.							
1. This report is the international preliminary examination report, established by this International Preliminary Examining Autlunder Article 35 and transmitted to the applicant according to Article 36.	nority						
2. This REPORT consists of a total of 6 sheets, including this cover sheet.							
3. This report is also accompanied by ANNEXES, comprising:							
a. (sent to the applicant and to the International Bureau) a total of 30 sheets, as follows	:						
sheets of the description, claims and/or drawings which have been amended and are the basis for this report a sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrations).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental							
Box.							
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))							
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see							
Section 802 of the Administrative Instructions).							
4. This report contains indications relating to the following items:							
Box No. I Basis of the report							
Box No. II Priority							
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
Box No. IV Lack of unity of invention							
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicabilit citations and explanations supporting such statement							
Box No. VI Certain documents cited							
Box No. VII Certain defects in the international application							
Box No. VIII Certain observations on the international application							
Date of submission of the demand Date of completion of this report							
Name and mailing address of the IPEA/JP  Authorized officer							
Facsimile No. Telephone No.							

International application No.
PCT/JP2005/001808

Box	No. I	Basis of the report					
1.		With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise ndicated under this item.					
			s report is based on translations from the original language into the following language, ch is the language of a translation furnished for the purposes of:				
		international search (Rule 12.3 and 23.1(b))					
		publication of the international application (Rule 12.	4)				
		international preliminary examination (Rule 55.2 and	d/or 55.3)				
2.	recei	regard to the <b>elements</b> of the international application, this report is based on (replacement sheets which have been furnished to the ring Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to export):					
		the international application as originally filed/furnished					
	$\boxtimes$	the description:					
		pages 4,7,9,10,12,15,22,23		as originally filed/furnished			
		pages* 1-3,5,6,8,11,13,14,16-21,24-36	received by this Authority on	26.09.2005			
		pages*	received by this Authority on				
	$\boxtimes$	the claims:					
		nos. 17,22,23		as originally filed/furnished			
				er with any statement) under Article 19			
		nos.* 1-3,5,6,16,18-21	_ received by this Authority on	26.09.2005			
		nos.*	_ received by this Authority on				
	$\boxtimes$	the drawings:					
		sheets fig. 1		as originally filed/furnished			
		sheets*					
		sheets*					
		a sequence listing and/or any related table(s) – see Suppler	— mental Box Relating to Sequence L	isting.			
3.	$\boxtimes$	The amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, nos. 4,7–15					
		the drawings, sheets/figs					
		any table(s) related to sequence listing (specify):					
4.			s report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since y have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).				
		the description, pages	the description, pages				
			the claims, nos.				
			the drawings, sheets/figs				
		any table(s) related to sequence listing (specify):					
*	If ite	m 4 applies, some or all of those sheets may be marked "suj	perseded."				

Вох			rticle 35(2) with regard to novelty, inventive step or industrial applicability; pporting such statement	
1.	Statement			
	Novelty (N)	Claims	1-3, 5, 6, 16-23	YES
		Claims		NO
	Inventive step (IS)	Claims		YES
		Claims	1-3, 5, 6, 16-23	NO
	Industrial applicability (IA)	Claims	1-3, 5, 6, 16-23	_ YES
		Claims		_ NO

2. Citations and explanations (Rule 70.7)

Document 1: JP 11-323015 A

Document 2: JP 2000-327797 A

Claims 1 to 3, 5, 6 and 16 to 23

The inventions set forth in claims 1 to 3, 5, 6 and 16 to 23 do not involve an inventive step in the light of documents 1 and 2 cited in the international search report.

Document 1 discloses a fibrous textile that has been coated with a flame-retardant resin composition configured from a thermoplastic resin and a flame retardant that has been encapsulated in microcapsules (refer to claims 1 and 10); therein, document 1 also presents a nonwoven fabric as an example of said fibrous textile (refer to paragraph [0031]).

On the other hand, document 1 does not make any disclosure delimiting the binder for the nonwoven fabric. However, the phenolic resins set forth in claim 1 of the present application are commonly used as resin binders for nonwoven fabrics (refer to document 2, claim 1, paragraphs [0018] to [0019] and examples 7 to 8); therefore, it cannot be considered to require significant

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

creative ability for a person skilled in the art to conceive of employing one of the phenolic resins set forth in claims 1 to 3 of the present application as a binder when using a nonwoven fabric as the fibrous textile in the invention disclosed in document 1.

With regards to examples 1 and 2 and comparative examples 1 and 3 in the detailed description of the invention in the present application, although there are also some examples of configurations that exhibited slightly different effects, there is no significant difference between the effects associated with the flame retardance characteristics, the acoustic absorptivity, the air flow resistance and the adhesion strengths of the configurations in examples wherein the films had a thickness of 200 µm. Such being the case, if the effects exhibited by the configurations in the aforementioned examples and comparative examples are taken as a whole, there cannot be considered to be any significant effects that result from employing one of the phenolic resins set forth in claims 1 to 3 of the present application as the binder in the invention set forth in claim 1 of the present application.

Furthermore, a person skilled in the art could adjust the amount of the aforementioned flame retardant that is adhered to the fibrous textile in order to achieve favorable effects, as appropriate.

Moreover, it would not be especially difficult for a person skilled in the art to conceive of simply employing the well-known base material set forth in claims 5 and 6 of the present application as the fibrous base material in the invention disclosed in document 1.

International application No.
PCT/JP2005/001808

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Likewise, it would not have been especially difficult for a person skilled in the art to configure the inventions set forth in claims 16 and 23 by simply employing the fibrous material disclosed in document 1, which has flame retardant-containing capsules adhered thereto, in an automobile, which is an environment in which it is desirable for a material to exhibit flame retardance characteristics. In addition, automotive materials which have the layered structure set forth in claims 18 to 21 are well known, and it would not have been especially difficult to configure the layered structure in question. Furthermore, a person skilled in the art could establish the ranges set forth in claims 17 and 22 of the present application by adjusting the air flow resistance of said layered structure in order to achieve favorable effects, as appropriate.

International application No.
PCT/JP2005/001808

Supplemental Box						
In case the space in any of the preceding boxes is not sufficient.  Continuation of: Front page						
International Patent Classification	(IPC) or national					
classification and IPC:						
D06M23/12(2006.01)						